

Comparisons of Job Characteristics

Focus Occupation: [Forensic Science Technicians \(19-4092\)](#)

Associated Occupation: [Medical and Clinical Laboratory Technologists \(29-2011\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 61

Focus Occupation: Forensic Science Technicians (19-4092)

Associated Occupation: Medical and Clinical Laboratory Technologists (29-2011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Biology	3.7	16.7	9.3	<< Extensive education and/or training may be required
Chemistry	4.8	11.9	13.1	> Current knowledge level is likely sufficient
Medicine and Dentistry	3.7	10.1	6.0	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Forensic Science Technicians (19-4092)

Associated Occupation: Medical and Clinical Laboratory Technologists (29-2011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Science	4.5	10.9	9.8	< A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Forensic Science Technicians (19-4092)

Associated Occupation: Medical and Clinical Laboratory Technologists (29-2011)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
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Near Vision	11.1	14.0	15.1	0	Current ability level may be sufficient
Flexibility of Closure	7.8	11.7	16.0	>>	Current ability level is likely more than sufficient
Category Flexibility	9.0	11.2	12.0	0	Current ability level may be sufficient
Finger Dexterity	7.6	10.9	9.8	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	9.8	10.1	0	Current ability level may be sufficient
Perceptual Speed	7.4	9.3	11.1	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 89

Focus Occupation: Forensic Science Technicians (19-4092)
Associated Occupation: Medical and Clinical Laboratory Technologists (29-2011)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Analyze biological research, test, or analysis data	70
Analyze chemical experimental, test, or analysis data or findings	69
Analyze medical data	57
Analyze scientific research data or investigative findings	27
Collect scientific or technical data	30
Communicate technical information	4
Compile numerical or statistical data	38
Conduct analyses or tests of biological material samples	85
Conduct analyses or tests of organic compounds	71
Conduct laboratory research or experiments	57
Conduct standardized qualitative laboratory analyses	62
Conduct standardized quantitative laboratory analyses	62
Conduct tests or analyses of blood samples	89
Create mathematical or statistical diagrams or charts	43
Examine biological or other material specimens under microscope	73
Explain complex mathematical information	30
Follow infectious materials procedures	52
Follow microbiology procedures	74
Maintain records, reports, or files	5
Prepare reports	8
Prepare sample for laboratory testing, analysis, or microscopy	74
Record test results, test procedures, or inspection data	48
Set up or calibrate laboratory equipment	78
Understand technical operating, service or repair manuals	6
Use biological research techniques	68
Use biological testing instruments	73
Use chemical testing or analysis procedures	54

Use clinical sterilizing technique	71
Use computers to enter, access or retrieve data	3
Use hazardous materials information	35
Use health or sanitation standards	62
Use knowledge of investigation techniques	16
Use knowledge of metric system	39
Use laboratory equipment	60
Use mathematical or statistical methods to identify or analyze problems	30
Use microscope	71
Use precision measuring tools or equipment	17
Use quantitative research methods	35
Use relational database software	26
Use scientific research methodology	21
Use spreadsheet software	18
Use word processing or desktop publishing software	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 46

Focus Occupation: Forensic Science Technicians (19-4092)
Associated Occupation: Medical and Clinical Laboratory Technologists (29-2011)

Tools and Technologies	Exclusivity
Autoclave and sterilizer equipment and accessories	12
Cameras	2
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Diagnostic assessment and exam products for general use	21
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Laboratory centrifuges and accessories	13
Laboratory heating and drying equipment	13
Laboratory microscope slides and supplies	20
Laboratory mixing and stirring and shaking equipment and supplies	19
Laboratory washing and cleaning equipment	35
Lamps	19
Length and thickness and distance measuring instruments	2
Light and wave generating and measuring equipment	4
Liquid and solid and elemental analyzers	19
Medical staff clothing and related articles	17
Safety apparel	4

Specimen collection and transport containers and supplies	14
Spectroscopic equipment	10
Temperature and heat measuring instruments	6
Viewing and observing instruments and accessories	4
Weight measuring instruments	7

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.